

SEQUENCE LISTING

<110> O'DOWD, BRIAN F.
GEORGE, SUSAN R.

<120> METHOD OF IDENTIFYING TRANSMEMBRANE PROTEIN-INTERACTING COMPOUNDS

<130> 3477-110

<140> US 10/509,787

<141> 2004-09-30

<150> PCT/CA03/00542

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<150> 60/442,556

<151> 2003-01-27

<150> 60/422,891

<151> 2002-11-01

<150> 60/387,570

<151> 2002-06-12

<150> 60/379,419

<151> 2002-05-13

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<170> PatentIn version 3.1

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49

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51

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48

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Thr Leu Leu

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Asn	Pro	Ile	Ile	Tyr	Ala	Phe	Asn	Ala	Lys	Lys	Phe	Lys	Arg	Phe	Ser
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Thr Leu Leu

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27

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Tyr Pro Tyr Asp Val Pro Asp Tyr Ala
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gcaaggactc tgaacacctc tgcc 84

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Met Arg Thr Leu Asn Thr Ser Ala Met Asp Gly Thr Gly Leu Val Val
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1 5 10 15

Ser Ala Met Asp Gly Thr Gly Leu Val Val
20 25

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Gln Pro Glu Ser Ser Phe Lys Met Ser Phe Lys Arg Glu Thr Lys Val
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Leu

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Gln Pro Glu Ser Ser Phe Lys Lys Lys Phe Lys Arg Glu Thr Lys Val
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Leu

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39

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Leu Ile

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Leu Ile

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Thr Asn

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Leu Val Cys Ala Ala Val Lys Lys Phe Lys Arg Leu Arg Ser Lys Val
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Thr Asn

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Thr Leu Leu

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Thr Leu Leu

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<212> DNA

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44

<210> 32

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44

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30

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38

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Asn	Pro	Leu	Ile	Tyr	Cys	Arg	Ser	Pro	Asp	Phe	Ile	Arg	Ala	Phe	Gln
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Glu Leu Leu

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Asn Pro Leu Ile Tyr Cys Arg Ser Lys Lys Phe Lys Arg Ala Phe Gln
 1 5 10 15

Glu Leu Leu

<210> 68
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 taatacgact cactataggg 20

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<400> 73

Ser	Ser	Met	Ala	Met	Val	Pro	Ile	Tyr	Ala	Ala	Tyr	Lys	Phe	Cys	Ser
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Leu	Pro	Gly	Ser	Phe	Arg	Glu	Lys
						20	

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Ser	Ser	Met	Ala	Met	Val	Pro	Ile	Tyr	Ala	Ala	Lys	Lys	Phe	Lys	Arg
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Leu	Pro	Gly	Ser	Phe	Arg	Glu	Lys
						20	

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37

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<210> 77
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<400> 77

Ser Ser Met Ala Met Val Pro Ile Tyr Ala Ala Tyr Lys Phe Cys Ser
1 5 10 15

Leu Pro Gly Ser Phe Arg Glu Lys
20

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<400> 78

Ser Ser Met Ala Met Val Pro Ile Tyr Ala Ala Lys Lys Phe Lys Arg
1 5 10 15

Leu Pro Gly Ser Phe Arg Glu Lys
20

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40

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Phe Leu Leu Trp Lys Asn Trp Arg Leu Lys Asn Ile Asn Ser Ile Asn
1 5 10 15

Phe Asp Asn Pro
20

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<400> 86

Phe Leu Leu Trp Lys Asn Trp Lys Lys Phe Lys Arg Asn Ser Ile Asn
1 5 10 15

Phe Asp Asn Pro
20

<210> 87

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40

<210> 88

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ctatcctccg tggtagcgct gctccaataa attcactgc

39

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37

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taatacgtct tttaaatttc tttggagtga tgatcaaccg

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Arg	Leu	Ile	Ile	Thr	Pro	Gly	Thr	Phe	Lys	Glu	Arg	Ile	Ile	Lys	Ser
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Ile Thr

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Arg	Leu	Ile	Ile	Thr	Pro	Lys	Lys	Phe	Lys	Arg	Arg	Ile	Ile	Lys	Ser
1				5					10					15	

Ile Thr

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34

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ccgcggcccc gaattcggat ggcattggtg gtg

33

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37

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38

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<400> 97

Phe His Pro Glu Gln Asn Val Pro Lys Arg Lys Arg Ser Leu Lys Ala
1 5 10 15

Val Val Thr Ala Ala Thr
20

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Phe His Pro Glu Gln Asn Val Pro Lys Lys Phe Lys Arg Leu Lys Ala
1 5 10 15

Val Val Thr Ala Ala Thr
20

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taatacgact cactataggg

20

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44

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20

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44

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40

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<222> (14)..(14)
<223> Xaa equals Orn

<400> 109

Thr Val Leu Ala Leu Leu Ser His Arg Arg Ala Leu Lys Xaa Lys Ile
1 5 10 15

Trp Pro Gly Ile Pro
20

<210> 110
<211> 21
<212> PRT
<213> Artificial sequence

<220>
<223> synthesized

<220>
<221> MISC_FEATURE
<222> (14)..(14)
<223> Xaa equals Orn

<400> 110

Thr Val Leu Ala Leu Leu Ser His Lys Lys Phe Lys Arg Xaa Lys Ile
1 5 10 15

Trp Pro Gly Ile Pro
20

<210> 111
<211> 40

<212> DNA
<213> Artificial sequence

<220>
<223> primer

<400> 111
gctcttcggg ctcgagcagc gatgcgaccc tccgggacgg

40

<210> 112
<211> 39
<212> DNA
<213> Artificial sequence

<220>
<223> primer

<400> 112
ctatcctccg tggtagcgct gctccaataa attcactgc

39

<210> 113
<211> 37
<212> DNA
<213> Artificial sequence

<220>
<223> primer

<400> 113
cacatcggtc ggaagaagtt taagcggagg ctgctgc

37

<210> 114
<211> 40
<212> DNA
<213> Artificial sequence

<220>
<223> primer

<400> 114
cctgcagcag cctccgctta aacttcttcc gaacgatgtg

40

<210> 115
<211> 19
<212> PRT
<213> Artificial sequence

<220>
<223> synthesized

<400> 115

Arg Arg Arg His Ile Val Arg Lys Arg Thr Leu Arg Arg Leu Leu Gln
1 5 10 15

Glu Arg Glu

<210> 116
<211> 19
<212> PRT
<213> Artificial sequence

<220>
<223> synthesized

<400> 116

Arg	Arg	Arg	His	Ile	Val	Arg	Lys	Lys	Phe	Lys	Arg	Arg	Leu	Leu	Gln
1				5					10					15	

Glu Arg Glu

<210> 117
<211> 49
<212> DNA
<213> Artificial sequence

<220>
<223> primer

<400> 117
gaggactctg aacaccgaat tcgccgccat ggacgggact gggctggtg 49

<210> 118
<211> 45
<212> DNA
<213> Artificial sequence

<220>
<223> primer

<400> 118
gtgtggcagg attcatctgg gtaccgcggt tgggtgctga ccgtt 45

<210> 119
<211> 41
<212> DNA
<213> Artificial sequence

<220>
<223> primer

<400> 119
cctctgagga cctgaaaaag aagagaaagg ctggcatcgc c 41

<210> 120
<211> 41
<212> DNA
<213> Artificial sequence

<220>
<223> primer

<400> 120
ggc gatgcca gcctttctct tctttttcag gtcctcagag g

41

<210> 121
<211> 33
<212> PRT
<213> Artificial sequence

<220>
<223> synthesized

<400> 121

Asn	Pro	Ile	Ile	Tyr	Ala	Phe	Asn	Ala	Asp	Phe	Arg	Lys	Ala	Phe	Ser
1				5					10					15	

Thr	Leu	Leu	Ser	Ser	Glu	Asp	Leu	Lys	Lys	Glu	Glu	Ala	Ala	Gly	Ile
			20					25					30		

Ala

<210> 122
<211> 33
<212> PRT
<213> Artificial sequence

<220>
<223> synthesized

<400> 122

Asn	Pro	Ile	Ile	Tyr	Ala	Phe	Asn	Ala	Lys	Lys	Phe	Lys	Arg	Phe	Ser
1				5					10					15	

Thr	Leu	Leu	Ser	Ser	Glu	Asp	Leu	Lys	Lys	Lys	Arg	Lys	Ala	Gly	Ile
			20					25					30		

Ala

<210> 123
<211> 45
<212> DNA
<213> Artificial sequence

<220>
<223> primer

<400> 123
cctagtcgc agcaggccga attcgccacc atggacagca gcacc

45

<210> 124
 <211> 44
 <212> DNA
 <213> Artificial sequence

 <220>
 <223> primer

 <400> 124
 gatggtgtga gaccggtacc gcgggcaatg gagcagtttc tgcc 44

<210> 125
 <211> 45
 <212> DNA
 <213> Artificial sequence

 <220>
 <223> primer

 <400> 125
 cctagtccgc agcaggccga attcgccacc atggacagca gcacc 45

<210> 126
 <211> 45
 <212> DNA
 <213> Artificial sequence

 <220>
 <223> primer

 <400> 126
 ggatggtgtg agaccggtac cgcgggcaat ggagcagttt ctgcc 45

<210> 127
 <211> 30
 <212> DNA
 <213> Artificial sequence

 <220>
 <223> primer

 <400> 127
 gccttcctgg ataaaaaatt caagcgatgc 30

<210> 128
 <211> 31
 <212> DNA
 <213> Artificial sequence

 <220>
 <223> primer

 <400> 128
 gcatcgcttg aatTTTTTat ccaggaaggc g 31

<210> 129
<211> 7
<212> PRT
<213> Artificial sequence

<220>
<223> synthesized

<400> 129

Pro Lys Lys Lys Arg Lys Val
1 5

<210> 130
<211> 8
<212> PRT
<213> Artificial sequence

<220>
<223> synthesized

<220>
<221> MISC_FEATURE
<222> (4)..(14)
<223> Xaa equals a sequence of any 11 amino acids

<400> 130

Arg Arg Arg Xaa Lys Arg Arg Lys
1 5

<210> 131
<211> 7
<212> PRT
<213> Artificial sequence

<220>
<223> synthesized

<220>
<221> MISC_FEATURE
<222> (3)..(17)
<223> Xaa equals a sequence of any 15 amino acids

<400> 131

Lys Lys Xaa Lys Lys Arg Lys
1 5

<210> 132
<211> 6
<212> PRT
<213> Artificial sequence

<220>
<223> synthesized

<400> 132

Lys Arg Lys Arg Arg Pro
1 5

<210> 133

<211> 9

<212> PRT

<213> Artificial sequence

<220>

<223> synthesized

<400> 133

Pro Lys Lys Asn Arg Leu Arg Arg Lys
1 5

<210> 134

<211> 10

<212> PRT

<213> Artificial sequence

<220>

<223> synthesized

<220>

<221> MISC_FEATURE

<222> (5)..(24)

<223> Xaa equals a sequence of any 20 amino acids

<400> 134

Lys Arg Gln Arg Xaa Lys Lys Ser Lys Lys
1 5 10

<210> 135

<211> 9

<212> PRT

<213> Artificial sequence

<220>

<223> synthesized

<400> 135

Pro Ala Ala Lys Arg Val Lys Leu Asp
1 5

<210> 136

<211> 6

<212> PRT

<213> Artificial sequence

<220>

<223> synthesized

<400> 136

Gln Arg Lys Arg Gln Lys
1 5

<210> 137

<211> 17

<212> PRT

<213> Artificial sequence

<220>

<223> synthesized

<400> 137

His Arg Ile Glu Glu Lys Arg Lys Arg Thr Tyr Glu Thr Phe Lys Ser
1 5 10 15

Ile

<210> 138

<211> 7

<212> PRT

<213> Artificial sequence

<220>

<223> synthesized

<400> 138

Lys Lys Lys Tyr Lys Leu Lys
1 5

<210> 139

<211> 7

<212> PRT

<213> Artificial sequence

<220>

<223> synthesized

<400> 139

Lys Ser Lys Lys Lys Ala Gln
1 5

<210> 140

<211> 9

<212> PRT

<213> Artificial sequence

<220>

<223> synthesized

<400> 140

Lys Lys Lys Lys Arg Lys Arg Glu Lys
1 5

<210> 141
<211> 9
<212> PRT
<213> Artificial sequence

<220>
<223> synthesized

<400> 141

Leu Lys Arg Pro Arg Ser Pro Ser Ser
1 5

<210> 142
<211> 13
<212> PRT
<213> Artificial sequence

<220>
<223> synthesized

<220>
<221> MISC_FEATURE
<222> (4)..(25)
<223> Xaa equals a sequence of any 22 amino acids

<400> 142

Lys Arg Lys Xaa Lys Glu Leu Gln Lys Gln Ile Thr Lys
1 5 10

<210> 143
<211> 9
<212> PRT
<213> Artificial sequence

<220>
<223> synthesized

<400> 143

Gly Lys Lys Lys Tyr Lys Leu Lys His
1 5

<210> 144
<211> 7
<212> PRT
<213> Artificial sequence

<220>
<223> synthesized

<400> 144

Lys Lys Lys Tyr Lys Leu Lys
1 5

<210> 145
<211> 7
<212> PRT
<213> Artificial sequence

<220>
<223> synthesized

<400> 145

Lys Ser Lys Lys Lys Ala Gln
1 5

<210> 146
<211> 12
<212> PRT
<213> Artificial sequence

<220>
<223> synthesized

<220>
<221> MISC_FEATURE
<222> (4)..(353)
<223> Xaa equals a sequence of any 350 amino acids

<400> 146

Glu Glu Asp Xaa Lys Lys Lys Arg Glu Arg Leu Asp
1 5 10

<210> 147
<211> 25
<212> PRT
<213> Artificial sequence

<220>
<223> synthesized

<400> 147

Cys Tyr Phe Gln Lys Lys Ala Ala Asn Met Leu Gln Gln Ser Gly Ser
1 5 10 15

Lys Asn Thr Gly Ala Lys Lys Arg Lys
20 25

<210> 148
<211> 12
<212> PRT
<213> Artificial sequence

<220>
 <223> synthesized

 <220>
 <221> MISC_FEATURE
 <222> (6)..(328)
 <223> Xaa equals a sequence of any 323 amino acids

 <400> 148

Asp Ile Leu Arg Arg Xaa Pro Lys Gln Lys Arg Lys
 1 5 10

<210> 149
 <211> 22
 <212> PRT
 <213> Artificial sequence

<220>
 <223> synthesized

 <400> 149

Ser Ser Asp Asp Glu Ala Thr Ala Asp Ser Gln His Ser Thr Pro Pro
 1 5 10 15

Lys Lys Lys Arg Lys Val
 20

<210> 150
 <211> 12
 <212> PRT
 <213> Artificial sequence

<220>
 <223> synthesized

<220>
 <221> MISC_FEATURE
 <222> (6)..(14)
 <223> Xaa equals a sequence of any 9 amino acids

 <400> 150

Arg Lys Lys Arg Lys Xaa Lys Ala Lys Lys Ser Lys
 1 5 10

<210> 151
 <211> 7
 <212> PRT
 <213> Artificial sequence

<220>
 <223> synthesized

<220>
 <221> MISC_FEATURE

<222> (3)..(13)
<223> Xaa equals a sequence of any 11 amino acids

<400> 151

Lys Arg Xaa Lys Lys Leu Arg
1 5

<210> 152
<211> 11
<212> PRT
<213> Artificial sequence

<220>
<223> synthesized

<220>
<221> MISC_FEATURE
<222> (5)..(27)
<223> Xaa equals a sequence of any 22 amino acids

<220>
<221> MISC_FEATURE
<222> (5)..(26)
<223> Xaa equals any amino acid

<400> 152

Arg Arg Pro Ser Xaa Arg Arg Lys Arg Gln Lys
1 5 10

<210> 153
<211> 8
<212> PRT
<213> Artificial sequence

<220>
<223> synthesized

<220>
<221> MISC_FEATURE
<222> (4)..(14)
<223> Xaa equals a sequence of any 11 amino acids

<400> 153

Arg Arg Arg Xaa Lys Arg Arg Lys
1 5

<210> 154
<211> 7
<212> PRT
<213> Artificial sequence

<220>
<223> synthesized

<220>

<221> MISC_FEATURE
<222> (3)..(12)
<223> Xaa equals a sequence of any 10 amino acids

<400> 154

Lys Arg Xaa Lys Lys Lys Leu
1 5

<210> 155
<211> 12
<212> PRT
<213> Artificial sequence

<220>
<223> synthesized

<220>
<221> MISC_FEATURE
<222> (5)..(11)
<223> Xaa equals a sequence of any 7 amino acids

<400> 155

Arg Lys Arg Lys Xaa Arg Arg Ser Arg Tyr Arg Lys
1 5 10

<210> 156
<211> 9
<212> PRT
<213> Artificial sequence

<220>
<223> synthesized

<400> 156

Met Ile Ser Glu Ala Leu Arg Lys Ala
1 5

<210> 157
<211> 5
<212> PRT
<213> Artificial sequence

<220>
<223> synthesized

<400> 157

Lys Lys Phe Lys Arg
1 5

<210> 158
<211> 9
<212> PRT
<213> Artificial sequence

<220>

<223> synthesized

<400> 158

Ala Phe Ser Ala Lys Lys Phe Lys Arg
1 5